

Appln No. 09/530,145

Amdt date March 31, 2004

Reply to Office action of December 31, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

10. (Previously Presented) A gateway device which interconnects two communication buses implemented with different communication methods, and in which information to be communicated is made up of a header field including an address and a message field including information to be used at a receiving side after the communication based on said header field is completed, said gateway device comprising:

judging means for judging, based on contents of said message field, whether or not the information received from one communication bus is information that should be transmitted to the other communication bus; and

filtering means for transmitting said received information to said other communication bus when said received information is judged by said judging means to be the information that should be transmitted.

11. (Previously Presented) A gateway device which interconnects two communication buses implemented with different communication methods, and in which information to be communicated is made up of a header field including an address and a message field including a command and [a] an associated parameter, said gateway device comprising:

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judging means for judging, based on said command, whether or not the information received from one communication bus is information that should be transmitted to the other communication bus; and

filtering means for transmitting said received information to said other communication bus when said received information is judged by said judging means to be the information that should be transmitted.

Claim 12
12. (Previously Presented) A gateway device which interconnects two communication buses implemented with different communication methods, comprising:

judging means for judging whether or not information received from one communication bus is information that should be transmitted to the other communication bus;

storage means for storing the information that is judged by said judging means to be the information that should be transmitted; and

filtering means for comparing the information stored in said storage means with newly received information which is of the same kind as said stored information and is judged by said judging means to be the information that should be transmitted and, when their contents differ, transmitting said received information to said other communication bus while, at the same time, storing said received information in said storage means.

13. (Previously Presented) A gateway device as claimed in claim 12 further comprising:

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means for transmitting the information stored in said storage means to said communication bus in accordance with a request made from said communication bus.

14. (Previously Presented) A gateway device as claimed in any one of claims 10 to 13 wherein said gateway device interconnects two communication buses in an automobile.

15. (Previously Presented) A method of gatewaying in a gateway device which interconnects two communication buses implemented with different communication methods, and in which information to be communicated is made up of a header field including an address and a message field including information to be used at a receiving side after the communication based on said header field is completed, said method of gatewaying comprising the steps of:

(a) judging, based on contents of the message field of said communication data, whether or not the information received from one communication bus is the information that should be transmitted to the other communication bus; and

(b) performing filtering to transmit said received information to said other communication bus when in said step (a) said received information is judged to be the information that should be transmitted.

16. (Previously Presented) A method of gatewaying in a gateway device which interconnects two communication buses implemented with different communication methods, and in which

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information to be communicated is made up of a header field containing information including an address and a message field including a command and an associated parameter, said method of gatewaying comprising the steps of:

(a) judging, based on the command contained in the message field of said communication data, whether or not the information received from one communication bus is the information that should be transmitted to the other communication bus; and

(b) performing filtering to transmit said received information to said other communication bus when in said step (a) said received information is judged to be the information that should be transmitted.

17. (Previously Presented) A method of gatewaying in a gateway device which interconnects two communication buses implemented with different communication methods, comprising the steps of:

(a) judging whether or not information received from one communication bus is information that should be transmitted to the other communication bus;

(b) storing the information that is judged in said step (a) to be the information that should be transmitted; and

(c) performing filtering whereby the information stored in said step (b) is compared with newly received information which is of the same kind as said stored information and is judged in said step (a) to be the information that should be transmitted and, when their contents differ, said received information is

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transmitted to said other communication bus while, at the same time, storing said received information in said step (b).

18. (Previously Presented) A method of gatewaying as claimed in claim 17, further comprising the step of:

(d) transmitting the information stored in said step (b) to said communication bus in accordance with a request made from said communication bus.

19. (Previously Presented) The gateway device of claim 10, wherein the contents of the message field is payload information.

20. (Previously Presented) The gateway device of claim 12, wherein the information is payload information.

21. (Previously Presented) The method of claim 15, wherein the contents of the message field is payload information.

22. (Previously Presented) The method of claim 17, wherein the information is payload information.

23. (Previously Presented) The gateway device of claims 10 or 11, wherein the header field includes information specifying a destination address.

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24. (Currently Amended) The ~~gateway device~~ method of claims 15 or 16, wherein the header field includes information specifying a destination address.

25. (NEW) The gateway device of claims 10 or 11, wherein the header field includes an address specifying a destination in the one communication bus.

26. (NEW) The method of claims 15 or 16, wherein the header field includes an address specifying a destination in the one communication bus.